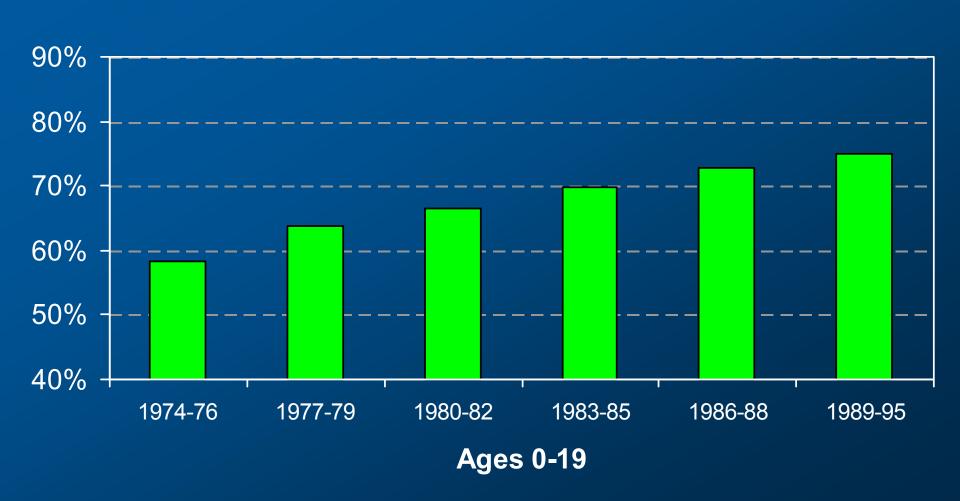
Prevention among Cancer Survivors—the example of smoking cessation

Karen M. Emmons, Ph.D.

Elyse Park, Elaine Puleo, Anne Mertens, Rita Butterfield, Ellen Gritz, Fred Li, Jane Weeks

5-Year Relative Survival Rates, Childhood Cancer



Smoking Status of CCSS Cohort Members, age 18 and older (n=9,709)

Ever Smoker 28%

Current Smoker 17%

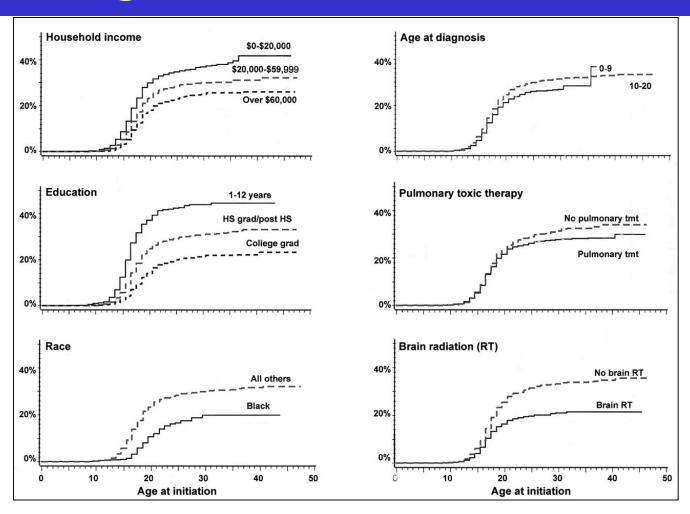
Other Tobacco Use 11%

Smoking Rate (cigs/day) 14

Quit Attempt in 42% previous 2 years

Emmons, et al., JCO, 2002

Actuarial Estimates of Age at Initiation of Smoking for Selected Characteristics



Emmons, et al., JCO, 2002

Survivor's Knowledge re Smoking

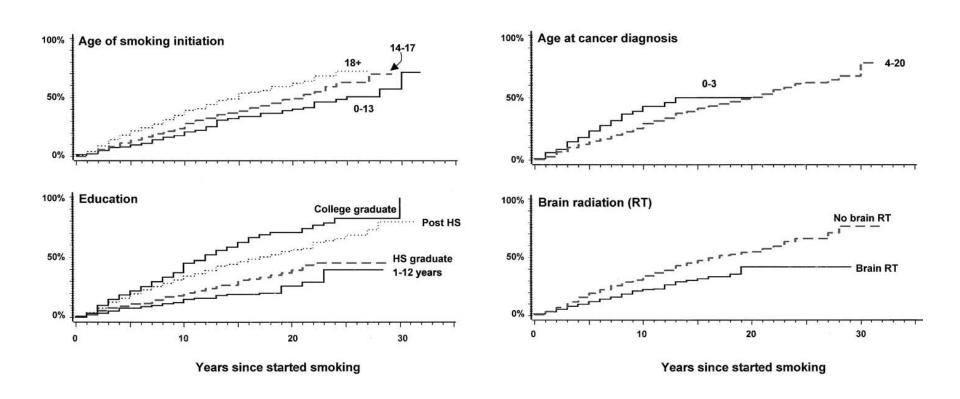
- High levels of:
 - knowledge about harmful effects
 - perceived vulnerability
 - Low intentions to use tobacco

Tyc, Hadley, & Crockett, 2001

Smoking Prevention Among Childhood Cancer Survivors

- Intervention:
 - Late effects risk counseling
 - Educational video
 - Written physician feedback
 - Telephone counseling @ 1- and 3 months
- Outcomes (12-months):
 - Higher smoking-related knowledge
 - Higher perceived vulnerability
 - Lower intention to smoke
- Tyc, et al., 2003

Actuarial Estimates of the Years to Smoking Cessation for Selected Characteristics



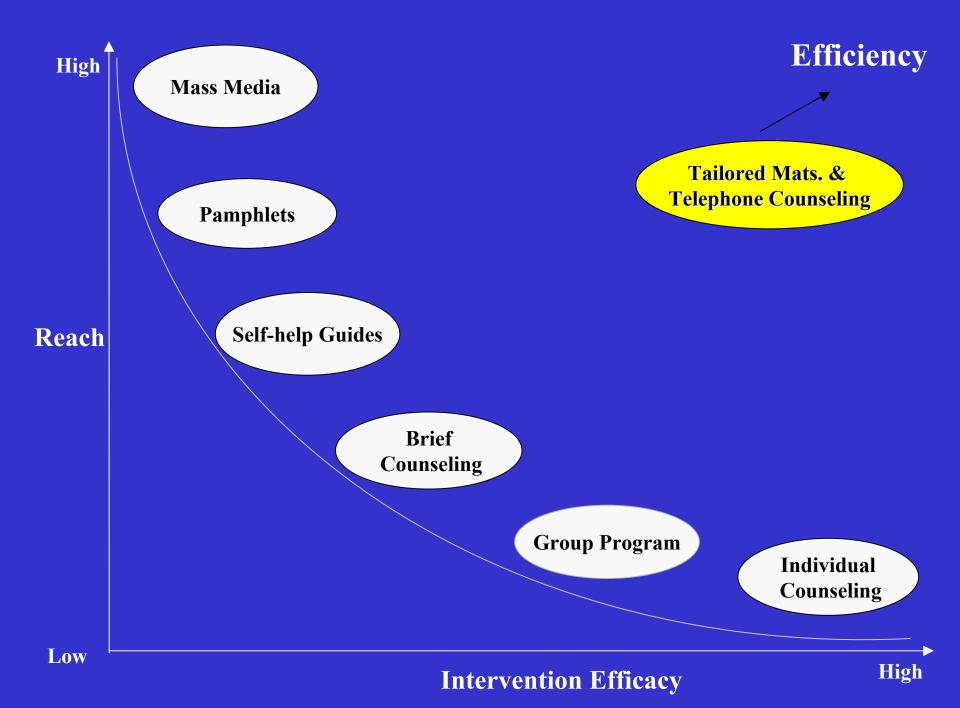
Emmons, et al., JCO, 2002



Challenges to Intervention Research with Survivors

- Population is geographically dispersed
- Age group is highly mobile
- Stressors of low income
- Survivor identity is key
- Cancer 'experience' is dependent on cancer/treatment type





Partnership For Health (PFH) Study Design

Baseline Survey

Randomization (n=796)

Self-help Control Group

(n=398)

- Physician Message
- Self-help materials

Intervention Group (n=398)

- Physician Message
- Tailored and targeted materials
- Peer delivered phone counseling
- Stage-matched smoking cessation
- NRT

PFH Demographics

Variable	M or %	Variable	M or %
Age	31	Cancer Diagnosis	
Gender (% Male)	53%	Leukemia/Lymphoma CNS/Neuro	55% 18%
Education < HS	13%	Bone/Soft Tissues /Wilms Tumor	27%
HS Post-HS	33% 54%	Treatment Types	400/
Employed	80%	Surgery Radiation +/- Surg	10% 18%
Marital Single	41%	Chemo +/- Surg Radiation + Chemo	22% 50%
Married/Partnered Other	44% 15%	Age at Diagnosis	4004
Otrici	1070	0-9 10-14	48% 28%
		15+	24%

Smoking Characteristics -- PFH

•	Smoking rate	15 cigs/day (SD=12)
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- Quit attempt, 58% past year
- Nicotine dependent 53%
- Confidence to quit, 2.21 next month (M, 5-pt scale)
- Readiness to Change
 - Precontemplation 18%
 - Contemplation43%
 - Preparation



Social Contextual Factors -- PFH

Social network

Nonsmoking5	%
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- Moderate or high 89% perceived risk
- Depression/
 - psych symptoms
- Have a PCP 77%

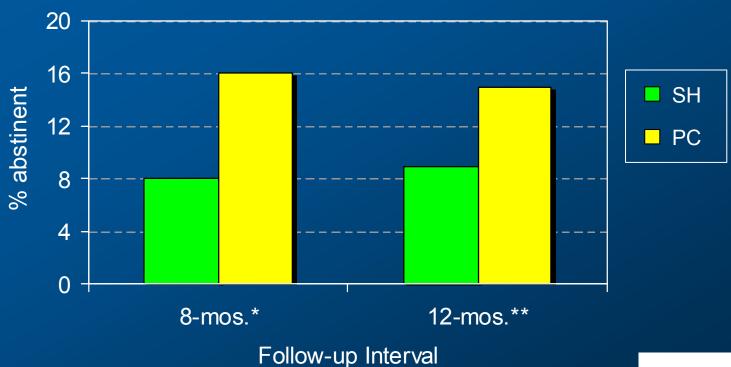


PFH—Health Care

•	Have a primary	/ care physician	77%
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- Provider knows cancer status
 96%
- Provider very/extremely 48% knowledgeable about the illness

Partnership for Health Smoking Cessation Outcomes



*p < .001

**p < .01



Cost-Effectiveness

Intervention delivery cost per person:
 \$298.17 for the PC group, and \$1.25 for SH.

Incremental cost-effectiveness:
 \$5,371 per additional quit at 12 months

How to Provide Smoking Services to Survivors

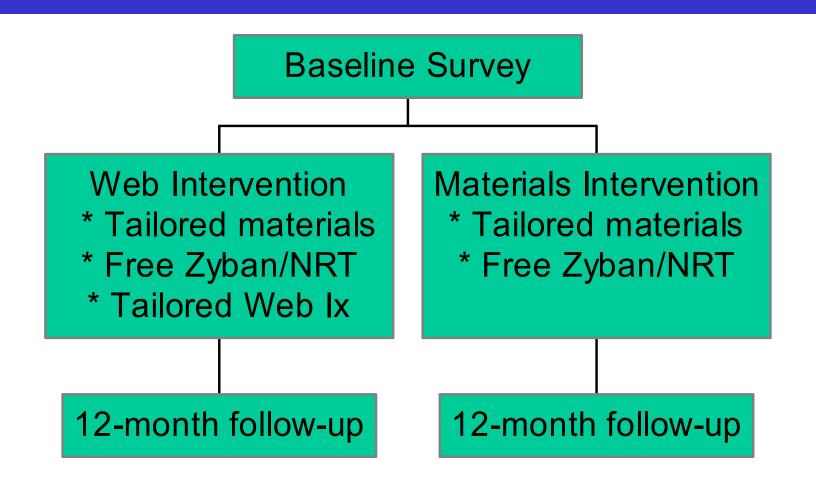
- Increase oncologists' understanding of the importance of providing smoking cessation services
- Increase organizational infrastructure for smoking cessation within survivorship programs
- Develop mechanisms for offering pharmacotherapy to all smokers
- Develop and evaluate smoking cessation interventions that can reach childhood cancer survivors

Teachable Moments for Smoking Cessation

- Transition from inpatient to outpatient care
- Involvement of family members
- Clinical feedback
- Incorporation of prevention into 'milestone' events

McBride & Ostroff, 2003

PFH-2— A Web-Based Intervention



5-Year Relative Survival Rates, Childhood Cancer

